PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 4305POLYVFIR ACTION International application No. International filing date (day/month/year) PCT/EP2005/050945 Applicant GLAVERBEL This International Search Report has been prepared by this International Searching Authority and is transmitted to the according to Article 18. A copy is being transmitted to the International Bureau. This International Search Report consists of a total of 6 sheets. X It is also accompanied by a copy of each prior art document cited in this report. 1. Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application and applications of the international application in which it was filed, unless otherwise indicated under this item.	2004 e applicant
International application No. International filling date (day/month/year) (Earliest) Priority Date (day PCT/EP2005/050945 03/03/2005 05/03/Applicant GLAVERBEL This International Search Report has been prepared by this International Searching Authority and is transmitted to the according to Article 18. A copy is being transmitted to the International Bureau. This International Search Report consists of a total of6 sheets. X It is also accompanied by a copy of each prior art document cited in this report. 1. Basis of the report a. With regard to the language, the international search was carried out on the basis of the International application and applications are the provided by the international search was carried out on the basis of the International applications are the provided by the international search was carried out on the basis of the International applications are the prior and the prior art document cited in this report.	e applicant
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language in which it was filed, unless otherwise indicated under this item.	ation in the
The international search was carried out on the basis of a translation of the international applied this Authority (Rule 23.1(b)).	ication furnished to
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application	n, see Box No. I.
2. Certain claims were found unsearchable (See Box II).	
Unity of invention is lacking (see Box III).	
4. With regard to the title,	
the text is approved as submitted by the applicant.	
X the text has been established by this Authority to read as follows:	
GLAZING PANEL	
5. With regard to the abstract,	
the text is approved as submitted by the applicant. the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV.	. The applicant
may, within one month from the date of mailing of this international search report, submit comments to	o this Authority.
6. With regard to the drawings,	
a. the figure of the drawings to be published with the abstract is Figure No	
as suggested by the applicant.	
as selected by this Authority, because the applicant falled to suggest a figure. as selected by this Authority, because this figure better characterizes the invention.	
b. X none of the figures is to be published with the abstract.	

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International Application No PCT/EP2005/050945

a. CLASSIFICATION OF SUBJECT MATTER C03C17/34 C03C17/42 C03C27/10 B32B17/10 E06B3/66 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) CO3C B32B E06B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X DE 42 24 053 A (GLAVERBEL) 1-3,6,9, 28 January 1993 (1993-01-28) 11,12,24 column 1, line 19 - column 2, line 18 column 7, line 17 - column 8, line 28 claims 1-22; examples 1-6 1 - 24X DE 25 42 441 A (BFG GLASSGROUP) 1,6,9 31 March 1977 (1977-03-31) page 3, paragraph 1 - page 4, paragraph 2 page 6, paragraph 3 - page 7, paragraph 1 page 7, paragraph 2 - page 9, paragraph 1 Υ 1-24 X DE 199 16 506 C (FLACHGLAS AG) 1-3,11,12,14,24 13 July 2000 (2000-07-13) Υ column 2, line 52 - column 5, line 56; 1-24 claims 1-12; figure 1; examples 1-5 X Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filling date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-*O" document referring to an oral disclosure, use, exhibition or s, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed '&' document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 22 November 2005 30/11/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Maurer, R

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PCT/EP2005/050945

		PCT/EP2005/050945
C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 219 801 A (VER GLASWERKE GMBH) 29 April 1987 (1987-04-29) page 2, line 16 - page 3, line 13	4,5,10
ĭ	page 4, line 14 - page 5, line 19; claims 1-4; figures 1,2	1-24
X	EP 0 617 078 A (HOECHST AG) 28 September 1994 (1994-09-28) examples 1-8	1,14
Y	page 5, lines 25-56 page 6, lines 3-42; claims 1-15; table 1	1-24
Y	WO 00/37383 A (GLAVERBEL; GOELFF PIERRE (BE); DECROUPET DANIEL (BE)) 29 June 2000 (2000-06-29) page 5, line 6 - page 6, line 8 page 6, lines 30-36 claims 1-13; examples 1,2	1-24
Y	EP 1 147 066 A (GLAVERBEL) 24 October 2001 (2001-10-24) page 2, line 36 - page 3, line 57; claims 1-12	1-24
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Claims 1-24 searched incompletely:

Reason for the limitation of the search:

Present claims 1-24 relate to products (glazing panel), which are (inter alia) defined by reference to desireable characteristcs or properties, namely heat release, mechanical resicstance, fire rating, bullet resistance, surface compression, emmissivity,Tg.

No compositions of the essential features of the panel (e.g.glass sheet, interlayer) are claimed, e.g. no glass composition and the interlayer is characterized by the vague term

" PVB- or EVA-based material" but it is not known what would be the rest of said material.

The claims cover all products having said characteristic or property, whereas the application provides support within the meaning of Article 84 EPC and/or disclosure within the meaning of Artilce 83 EPC for only a very limited number of such products. In the present case, claims so lack support, and the application so lacks disclosure, that a meaingful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 84 EPC). An attempt is made to define the product by reference to a result to be achieved. Again, this lack of clairty in the present case is such as to render a meaningful search over the whole of the claimed scope impossible.

Moreover, present claims 1-24 relate to products defined (inter alia) by reference to the following parameters: Heat release, machanical resistance, fire rating, bullet resistance, expansion coefficient, Tg. Teh use of these parameters in the present context is considered to lead to lack of clarity within the meaning of Article 84 EPC. It is impossible to compare the parameters the applicat has choosen to employ with what is set out in the prior art. The lack of clarity is such as to render a meaningful search impossible.

Consequently the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed (fig1,2).

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)	
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
see FURTHER INFORMATION sheet PCT/ISA/210	
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:	
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)	
This International Searching Authority found multiple inventions in this international application, as follows:	
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.	
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.	

information on patent family members

International Application No
PCT/EP2005/050945

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
DE 4224053	A	28-01-1993	AT	400321	B	27-12-1995
			ΑŤ	149892		15-04-1995
			AU	653410		29-09-1994
			AU	1950792		28-01-1993
			BE	1006494		13-09-1994
			CH	684396		15-09-1994
			CZ	9202277		17-02-1993
			ES	2059246	A2	01-11-1994
			FR	2679549	A1	29-01-1993
			GB	2258422	A	10-02-1993
			ΙT	1257382	В	15-01-1996
			JP	2997136	B2	11-01-2000
			JP	5245975		24-09-1993
			LU	88152		15-02-1993
			NL	9201306		16-02-1993
			NO	922929		25-01-1993
			SE	505978		27-10-1997
			SE	9202140		25-01-1993
			SK	227792	A3	09-11-1994
DE 2542441	Α	31-03-1977	NONE			
DE 19916506	С	13-07-2000	EP	1044801	A2	18-10-2000
			JP	2000344553	A	12-12-2000
EP 0219801	Α	29-04-1987	DE	3537255	A1	23-04-1987
EP 0617078	Α	28-09-1994	DE	4309638	A1	29-09-1994
			ES	2115093		16-06-1998
			JP	7133392		23-05-1995
			US	5434207	A	18-07-1995
WO 0037383	Α	29-06-2000	AU	2433500	 A	12-07-2000
			CZ	20012223		13-03-2002
			HU	0104650		28-11-2002
			PL	349502	A1	29-07-2002
			SK	8392001	A 3	07-01-2002
EP 1147066	Α	24-10-2001	NONE			